



SuperStack® 3

Switch 4300

Getting Started Guide

3C17100

<http://www.3com.com/>

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REGULATORY NOTICES

ABOUT THIS GUIDE

This guide provides all the information you need to install and use a SuperStack® 3 Switch 4300 (3C17100) in its default state.

The guide is intended for use by network administrators who are responsible for installing and setting up network equipment; consequently, it assumes a basic working knowledge of LANs (Local Area Networks).



Throughout this guide, the term stack refers to a number of Switch units that are managed as a single unit. However, a stack can contain a single Switch. In the case of the Switch 4300, stackability is not currently supported.



If the information in the release notes that are shipped with your product differ from the information in this guide, follow the instructions in the release notes.

Most user guides and release notes are available in Adobe Acrobat Reader Portable Document Format (PDF) or HTML on the 3Com World Wide Web site:

<http://www.3com.com/>

Conventions

[Table 1](#) and [Table 2](#) list conventions that are used throughout this guide.

Table 1 Notice Icons

Icon	Notice Type	Description
	Information note	Information that describes important features or instructions
	Caution	Information that alerts you to potential loss of data or potential damage to an application, system, or device
	Warning	Information that alerts you to potential personal injury

Table 2 Text Conventions

Convention	Description
Screen displays	This typeface represents information as it appears on the screen.
Syntax	The word “syntax” means that you must evaluate the syntax provided and then supply the appropriate values for the placeholders that appear in angle brackets. Example: To change your password, use the following syntax: <pre>system password <password></pre> In this example, you must supply a password for <password>.
Commands	The word “command” means that you must enter the command exactly as shown and then press Return or Enter. Commands appear in bold. Example: To display port information, enter the following command: <pre>bridge port detail</pre>
The words “enter” and “type”	When you see the word “enter” in this guide, you must type something, and then press Return or Enter. Do not press Return or Enter when an instruction simply says “type.”
Keyboard key names	If you must press two or more keys simultaneously, the key names are linked with a plus sign (+). Example: <pre>Press Ctrl+Alt+Del</pre>
Words in <i>italics</i>	Italics are used to: ■ Emphasize a point. ■ Denote a new term at the place where it is defined in the text. ■ Identify menu names, menu commands, and software button names. Examples: From the <i>Help</i> menu, select <i>Contents</i>. Click <i>OK</i>.

Related Documentation

In addition to this guide, each Switch documentation set includes the following:

- *Implementation Guide*

This guide contains information on the features supported by your Switch and how they can be used to optimize your network.

- *Management Quick Reference Guide*

This guide contains a summary of the web interface and command line interface commands for the Switch.

- *Management Interface Reference Guide*

This guide provides detailed information about the web interface and command line interface that enable you to manage the Switch. It is supplied in HTML format on the CD-ROM that accompanies the Switch.

- *Release Notes*

These notes provide information about the current software release, including new features, modifications, and known problems.

There are other publications you may find useful, such as:

- Documentation accompanying the Advanced Redundant Power system.
- Documentation accompanying the Expansion Modules.
- Documentation accompanying 3Com Network Supervisor. This is supplied on the CD-ROM that accompanies the Switch.

Accessing Online Documentation

The CD-ROM supplied with your Switch contains the following online documentation:

- *Implementation Guide* (PDF format)

- *Management Interface Reference Guide* (HTML format)

- 1 To access the documentation insert the CD-ROM into your CD-ROM drive. If your PC has auto-run enabled, a splash screen will be displayed automatically.
- 2 Select the Documentation section from the contents page.

If the online documentation is to be accessed from a local drive or server, you will need to access the CD-ROM contents via the root directory and copy the files from the CD-ROM to a suitable directory.

- The HTML Reference Guide is stored in the **Docs/reference** directory on the CD-ROM. The documentation is accessed using the `contents.htm` file.
- The PDF Implementation Guide is stored in the **Docs/implementation** directory of the CD-ROM.



*We recommend that you copy the **Docs/reference** directory as a whole to maintain the structure of the files.*

Product Registration

You can register your SuperStack 3 Switch 4300 on the 3Com Web site:
<http://support.3com.com/registration/frontpg.pl>

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- Document title
- Document part number (on the title page)
- Page number (if appropriate)

Example:

Part Number DUA1710-0AAA0x

SuperStack 3 Switch 4300 Getting Started Guide

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1

INTRODUCING THE SUPERSTACK 3 SWITCH 4300

This chapter contains introductory information about the Switch 4300 and how it can be used in your network. It covers summaries of hardware and software features and also the following topics:

- [About the Switch 4300](#)
- [Switch 4300 — Front View Detail](#)
- [Switch 4300 — Rear View Detail](#)
- [Default Settings](#)

About the Switch 4300

The Switch 4300 is a 10/100 Mbps device that provides high-performance work groups with a backbone to server connection. The Switch 4300 allows Gigabit Ethernet or Fast Ethernet Fiber connections when expansion modules are installed in the expansion slots on the rear of the unit. You can also add the Switch 4300 to any SuperStack® system as your network grows.

Summary of Hardware Features

[Table 3](#) summarizes the hardware features that are supported by the Switch 4300.

Table 3 Hardware features

Feature	Switch 4300
Addresses	■ Up to 8000 supported ■ Up to 64 permanent entries
Auto-negotiation	■ Supported on all ports ■ Auto MDI/MDI-X
Forwarding Modes	Store and Forward
Duplex Modes	Half and full duplex supported on all ports
Flow Control	Supported on all ports
Traffic Prioritization	Supported (IEEE 802.ID): 4 queues per port
Ethernet and Fast Ethernet Ports	Auto-negotiating 10BASE-T/100BASE-TX ports
SuperStack 3 Switch Architecture	■ Type 2A Connector for a SuperStack 3 Advanced Redundant Power System (ARPS) (3C16071B) ■ 19-inch rack or stand-alone mounting

Summary of Software Features

[Table 4](#) summarizes the software features that are supported by the Switch 4300.

Table 4 Software features

Feature	Switch 4300
Aggregated Links	Support for four groups of four ports per unit
Broadcast Storm Control	Supported
Virtual LANs (VLANs)	Support for up to 30 VLANs using the IEEE 802.1Q standard
Multicast Filtering	■ 128 Multicast filter groups supported ■ IGMP filtering supported
Spanning Tree Protocol	Supported (IEEE802.ID)
RMON	Four groups supported: Statistics, History, Alarms, Event
Management	Web interface, command line interface, and SNMP supported
BootP	Enabled
Port Security	Supported



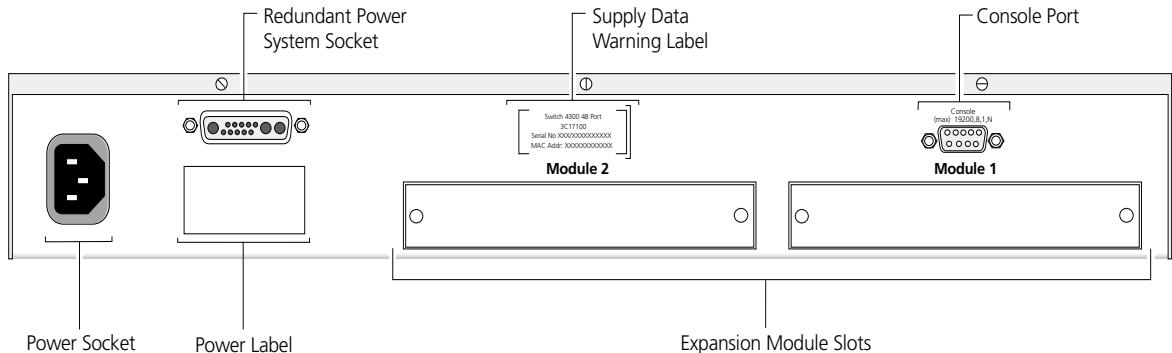
For information about managing the software features of the Switch, refer to the “SuperStack 3 Switch 4300 Management Interface Reference Guide” on the CD-ROM that accompanies the Switch.

Table 5 LED behavior

LED	Color	Indicates
Port Status LEDs		
Packet	Green	Packets are being transmitted/received on the port.
	Off	No packets are being transmitted/received on the port.
Status	Green	A high speed (100 Mbps) link is present, and the port is enabled.
	Green flashing	A high speed (100 Mbps) link is present, but the port is disabled.
	Yellow	A low speed (10 Mbps) link is present, and the port is enabled.
	Yellow flashing	A low speed (10 Mbps) link is present, but the port is disabled.
	Off	No link is present.
Module Packet LEDs (P)		
	Green	Packets are being received or transmitted.
	Off	No activity
Module Status LEDs (S)		
	Green	The Module is installed and supported.
	Off	The Module is either not installed or not supported.
Power LED (PWR)		
	Green	The Switch is powered-up and operating normally.
	Off	The Switch is not receiving power or there is a fault with the Power Supply Unit.
POST LED (Post)		
	Yellow flashing	The Switch is either downloading software or is initializing (which includes running a Power On Self Test).
	Yellow	The Switch has failed its Power On Self Test.
	Off	The Switch has completed either a software download or the Power On Self Test.

Switch 4300 — Rear View Detail

Figure 2 Switch 4300 — rear view



Power Socket The Switch automatically adjusts its power setting to any supply voltage in the range 100-240 VAC.

Redundant Power System Socket To protect against internal power supply failure, you can use this socket to connect a Switch 4300 to a SuperStack 3 Advanced Redundant Power System (RPS). See [“Connecting a Redundant Power System”](#) on [page 23](#).

Console Port The console port allows you to connect a terminal and perform remote or local out-of-band management. The console port use a standard null modem cable and is set to auto-baud, 8 data bits, no parity and 1 stop bit.

Expansion Module Slots You can use these slots to install Expansion Modules. These allow the Switch to support various forms of connection and add extra functionality to your Switch. Contact your supplier for more information.



WARNING: When an Expansion Module is not installed, ensure the blanking plate is fitted by tightening all screws with a suitable tool.

Default Settings

[Table 6](#) shows the default settings for the Switch 4300. If you initialize the Switch, it is returned to these defaults.

Table 6 Default Settings

Feature	Switch 4300
Port Status	Enabled
Port Speed	10/100 Mbps ports are auto-negotiated
Duplex Mode	All fixed 10BASE-T and 100BASE-TX ports are auto-negotiating
Flow Control	■ Enabled in half duplex ■ Auto-negotiating in full duplex
Broadcast Storm Control	Enabled (default threshold 3000 packets per second)
Virtual LANs (VLANs)	All ports belong to the untagged Default VLAN (VLAN 1) with 802.1Q learning operational
Multicast Filtering	Filtering enabled until IGMP query is seen.
Spanning Tree Protocol	Enabled (Fast Start is enabled on all ports)
BootP	Enabled (default IP address is 0.0.0.0)
Traffic Prioritization	Two queues per port
Switch Database	Empty Aging period 103 seconds

2

INSTALLING THE SWITCH

This chapter contains the information you need to install and set up the Switch 4300. It covers the following topics:

- [Package Contents](#)
- [Choosing a Suitable Site](#)
- [Rack-mounting](#)
- [Placing Units On Top of Each Other](#)
- [The Power-up Sequence](#)
- [Solving Problems Indicated by LEDs](#)
- [Managing the Switch](#)



WARNING: Safety Information. Before installing or removing any components from the Switch 4300 or carrying out any maintenance procedures, you must read the safety information provided in [Appendix A](#) of this guide.



AVERTISSEMENT: Consignes de sécurité. Avant d'installer ou d'enlever tout composant du Switch 4300 ou d'entamer une procédure de maintenance, lisez les informations relatives à la sécurité qui se trouvent dans l'Appendice A de ce guide.



WARNHINWEIS: Sicherheitsinformationen. Bevor Sie Komponenten aus dem Switch 4300 entfernen oder dem Switch 4300 hinzufuegen oder Instandhaltungsarbeiten verrichten, lesen Sie die Sicherheitsanweisungen, die in Appendix A (Anhang A) in diesem Handbuch aufgefuehrt sind.

Package Contents

- Switch 4300 (3C17100)
- CD-ROM
- Getting Started Guide
- Implementation Guide
- Management Quick Reference Guide
- Release Notes
- Registration Information
- Power Cord
- 2 x Mounting brackets
- 6 x Screws
- 4 x Rubber feet

Choosing a Suitable Site

The Switch is suited for use on a desktop, either free standing or mounted in a standard 19-inch equipment rack. Alternatively, the Switch can be mounted in a wiring closet or equipment room, as an aggregator for other Hubs and Switches. A rack-mounting kit containing two mounting brackets is supplied with the Switch.



CAUTION: *Ensure that the ventilation holes are not obstructed.*

When deciding where to position the Switch, ensure that:

- Cabling is located away from:
 - sources of electrical noise such as radios, transmitters and broadband amplifiers.
 - power lines and fluorescent lighting fixtures
- The Switch is accessible and cables can be connected easily.
- Water or moisture cannot enter the case of the Switch.
- Air-flow is not restricted around the Switch or through the vents in the side of the Switch. 3Com recommends that you provide a minimum of 25 mm (1 in.) clearance.
- Air flow around the Switch does not exceed 40 °C (104 °F).



If the Switch is installed in a 19-inch rack or closed assembly its local air temperature may be greater than room ambient temperature.

- The air is as free from dust as possible.
- The unit is installed in a clean, air conditioned environment.
- No more than four Switch units are placed on top of one another, if the units are free-standing.

Rack-mounting

The Switch 4300 is 1.5U and will fit in most standard 19-inch racks.

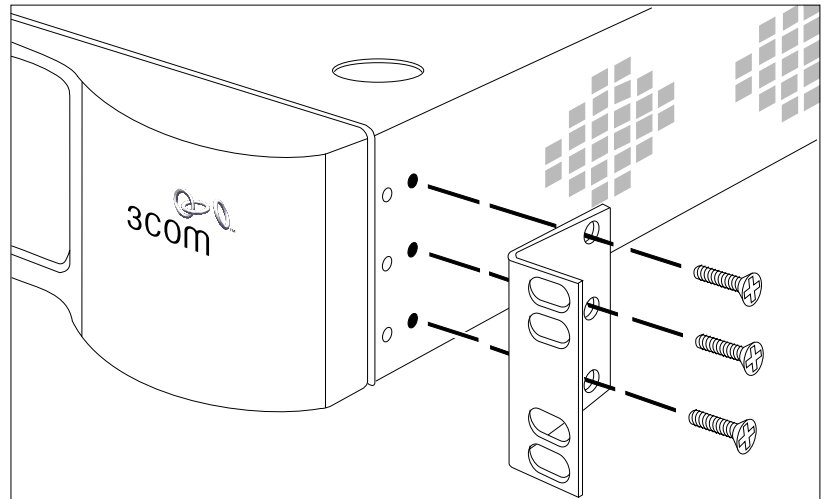


CAUTION: *Disconnect all cables from the Switch before continuing. Remove all self adhesive pads from the underside of the Switch if they have been fitted.*

To rack-mount your Switch:

- 1 Place the Switch the right way up on a hard flat surface, with the front facing towards you.
- 2 Locate a mounting bracket over the mounting holes on one side of the Switch, as shown in [Figure 3](#).

Figure 3 Fitting a bracket for rack-mounting



- 3 Insert the three screws and tighten with a suitable screwdriver.



You must use the screws supplied with the mounting brackets. Damage caused to the unit by using incorrect screws invalidates your warranty.

- 4 Repeat steps 2 and 3 for the other side of the Switch.
- 5 Insert the Switch into the 19-inch rack and secure with suitable screws (not provided). Ensure that ventilation holes are not obstructed.
- 6 Connect network cabling.

Placing Units On Top of Each Other

If the Switch units are free-standing, up to four units can be placed one on top of the other. If you are mixing a variety of SuperStack® 3 Switch and Hub units, the smaller units must be positioned at the top.

If you are placing Switch units one on top of the other, you must use the self-adhesive rubber pads supplied. Apply the pads to the underside of each Switch, sticking one in the marked area at each corner. Place the Switch units on top of each other, ensuring that the pads of the upper unit line up with the recesses of the lower unit.



CAUTION: *Do not build a free standing stack of more than four units.*

The Power-up Sequence

The following sections describe how to get your Switch 4300 powered-up and ready for operation.

Powering-up the Switch 4300

Use the following sequence of steps to power-up the Switch.

- 1 Plug the power cord into the power socket at the rear of the Switch.
- 2 Plug the other end of the power cord into your power outlet.

The Switch powers-up and runs through its Power On Self Test (POST), which takes approximately three minutes (180 seconds).

Checking for Correct Operation of LEDs

During the Power On Self Test, all ports on the Switch are disabled and the LEDs light in a set sequence.

When the POST has completed, check the Power and POST (Self Test) LEDs to make sure that your Switch is operating correctly. [Table 7](#) shows possible colors for the LEDs.

Table 7 Power and POST (Self Test) LEDs

LED	Color	State
Power	Green	The Switch is powered-up and operating normally.
	Off	The Switch is not receiving power.
POST	Yellow	The Switch has failed its Power On Self Test. This occurs if any of the ports fail during power-up.
	Off	The Switch has completed its Power On Self Test.

If there is evidence of a problem, see [“Solving Problems Indicated by LEDs”](#) on [page 24](#).

Connecting a Redundant Power System

You can connect a SuperStack 3 Advanced Redundant Power System (3C16071B) to the Switch. This unit, which is also known as an RPS, is designed to maintain the power to your Switch if a power supply failure occurs.

For normal redundancy, the unit requires one Type 2A Power Module (part number 3C16074A). For full redundancy, the unit requires two type 2A Power Modules combined using a Type 2 Y-Cable.



WARNING: *The Switch has no ON/OFF switch; the only method of connecting or disconnecting mains power is by connecting or disconnecting the power cord.*



CAUTION: *The Switch can only use a SuperStack Advanced Redundant Power System output.*

Choosing the Correct Cables

All of the ports on the front of the Switch 4300 are Auto-MDIX, that is they have a cross-over capability. The port can automatically detect whether it needs to operate in MDI or MDIX mode. Therefore you can make a connection to a port with a straight-through (MDI) or a cross-over cable (MDIX).

3Com recommends that you use Category 5 twisted pair cable — the maximum segment length for this type of cable is 100 m (328 ft).

Solving Problems
Indicated by LEDs

If the LEDs on the Switch indicate a problem, refer to [Table 8](#), which contains a list of problems and suggested solutions.

Table 8 Problems Indicated by LEDs

Problem	Suggested Solution
The Power LED does not light	Check that the power cable is firmly connected to the relevant Switch unit and to the supply outlet. If the connection is secure and there is still no power, you may have a faulty power cord.
On powering-up, the POST LED lights yellow.	The relevant Switch unit has failed its Power On Self Test (POST) because of an internal problem. Contact your supplier for advice.
A link is connected and yet the Status LED for the port does not light	Check that: ■ All connections are secure. ■ The devices at both ends of the link are powered-up. ■ The quality of cable is satisfactory.

Managing the
Switch

Your Switch can operate in its default state. However, to make full use of the features offered by the Switch, and to change and monitor the way it works, you have to access the management software that resides on the Switch. This is known as managing the Switch.

Managing the Switch can help you to improve the efficiency of the Switch and therefore the overall performance of your network.

There are several different methods of accessing the management software to manage a Switch. These methods are explained in [Chapter 3](#).



Even if you do not intend to actively manage the switch, 3Com recommends that you change the password to prevent unauthorized access to your network. See [“Logging in as a Default User”](#) on [page 31](#) for more information.

3

SETTING UP FOR MANAGEMENT

This chapter explains the various ways of managing a Switch, and details the steps required before you can configure a Switch to suit the needs of your network. It covers the following topics:

- [Methods of Managing a Switch](#)
- [Setting Up Web Interface Management](#)
- [Setting Up Command Line Interface Management](#)
- [Setting Up SNMP Management](#)
- [Managing a Switch Over the Network](#)
- [Logging in as a Default User](#)



For detailed information about the specific web interface operations and command line interface commands, refer to the “SuperStack 3 Switch 4300 Management Interface Reference Guide” on the CD-ROM that is supplied with the Switch.



For information about solving problems when managing the Switch, refer to the Problem Solving section in the “SuperStack 3 Switch 4300 Management Interface Reference Guide” on the CD-ROM that accompanies the Switch.

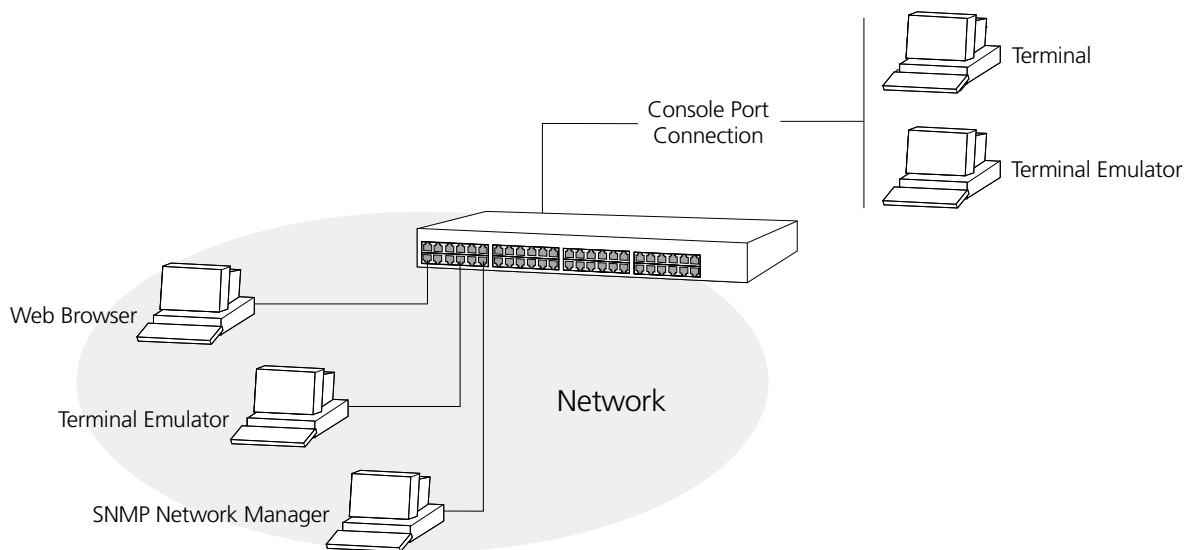
Methods of Managing a Switch

You can manage a Switch using one of the following methods:

- *Web interface management* — Each Switch has an internal set of web pages that allow you to manage the Switch using a Web browser.
- *Command line interface management* — Each Switch has a command line interface that allows you to manage the Switch from a terminal.
- *SNMP management* — You can manage a Switch using any Network Manager running the Simple Network Management Protocol (SNMP), such as 3Com Network Supervisor software.

[Figure 4](#) shows how each of these management methods can be used in a network.

Figure 4 Management methods



Setting Up Web Interface Management

You can access the web interface using a management workstation connected to a Switch over an IP network.

Choosing a Browser

To display the web interface correctly, use one of the following Web browsers:

- Netscape Navigator® version 4.5 or above
- Internet Explorer version 4.0 or above



For the browser to operate the web interface correctly JavaScript™ and Cascading Style Sheets must be enabled on your browser. These features are enabled on a browser by default. You will only need to enable them if you have changed your browser settings.

Setting Up Over the Network

To manage a Switch using the web interface over an IP network:

- 1 Set up the Switch with IP information. To do this, use the IP Setup page to enter suitable IP information for the Switch.

For more information about IP, see [“Managing a Switch Over the Network”](#) on [page 30](#).

- 2 Check that you have an IP stack correctly installed on your management workstation. You can check this by trying to browse the World Wide Web. If you can browse, an IP stack is installed.
- 3 Check that the management workstation is connected to the Switch using a port that is in VLAN 1. By default, all ports on the Switch are in VLAN 1.



BOOTP server is the default method of allocating an IP address. It allows you to automatically set up the Switch with IP information. For BOOTP to work correctly you must have a BOOTP server on your network and the Switch must have the IP address 0.0.0.0 (default setting).

Setting Up Command Line Interface Management

You can access the command line interface using:

- A terminal or terminal emulator connected to the console port of a Switch directly, or through a modem.
- A terminal or terminal emulator connected to a Switch over an IP network using Telnet.

Setting Up Through the Console Port

To manage a Switch using the command line interface through the console port:

- 1 Connect the terminal or terminal emulator to the console port.
- 2 If you are connecting directly to the console port, you need a standard null modem cable.

If you are connecting to the console port using a modem, you need a standard modem cable. The console port of the Switch has a male 9-pin D-type connector. You can find pin-out diagrams for both cables on [page 39](#).

To connect the cable:

- a Attach the female connector on the cable to the male connector on the console port of the Switch.
- b Tighten the retaining screws on the cable to prevent it from being loosened.
- c Connect the other end of the cable to your terminal, terminal emulator, or modem. Make sure that the terminal, terminal emulator, or modem have the same settings as the console port:
 - 8 data bits
 - no parity
 - 1 stop bit

To configure the settings of the terminal, terminal emulator, or modem, see the documentation that accompanies it. If the Switch containing the console port has auto-configuration enabled (default), the line speed (baud) is detected automatically. The Switch can auto-detect a maximum line speed of 19,200 baud.

- 3 Access the command line interface using a valid user name and password. Default user names and passwords are described in [“Logging in as a Default User”](#) on [page 31](#).

Setting Up Over the Network

To manage a Switch using the command line interface over a network using Telnet:

- 1 Set up the Switch with IP information. To do this:
 - a Access the command line interface of the Switch through the console port. See [“Setting Up Through the Console Port”](#) on [page 28](#).
 - b Use the **protocol ip basicConfig** command to enter suitable IP information for the Switch.

For more information about IP, see [“Managing a Switch Over the Network”](#) on [page 30](#).

- 2 If you are using a terminal emulator, check that you have an IP stack correctly installed on the terminal emulator.
- 3 Check that your terminal or terminal emulator is connected to the Switch using a port that is in VLAN 1. By default, all ports on the Switch are in VLAN 1.
- 4 Open a Telnet session by specifying the IP address of the Switch. If you are unsure how to do this, check the documentation supplied with the Telnet facility.

Setting Up SNMP Management

Any network management application running the Simple Network Management Protocol (SNMP) can manage a Switch if:

- The correct Management Information Bases (MIBs) are installed on the management workstation, see [Appendix C “Technical Specifications”](#).
- The management workstation is connected to the Switch using a port in VLAN 1 (the Default VLAN). By default, all ports on the Switch are in VLAN 1.

For information about using an SNMP network management application to manage a Switch, see the documentation supplied with the software.



To manage your Switch using an SNMP network management application, you need to specify SNMP community strings for the users defined on the Switch. You can do this using the command line interface — refer to the command line interface section of the “SuperStack 3 4300 Switch Management Interface Reference Guide” on the CD-ROM that is supplied with the Switch.

Managing a Switch Over the Network

To manage a Switch over the network, the Switch must be correctly configured with the following IP information:

- An IP address — for more information, see [“IP Addresses”](#) below.
- A subnet mask — for more information, see [“Subnets and Using a Subnet Mask”](#) on [page 31](#).
- A default IP router — if you do not know what your default IP router address is, contact your network administrator.

IP Addresses

If you are uncertain about what IP addresses to assign to your equipment, contact your network administrator.

To operate correctly, each device on your network (for example a hub or management station) must have a unique IP address. IP addresses have the format *n.n.n.n* where *n* is a decimal number between 0 and 255. An example IP address is ‘192.168.100.8’.

The IP address can be split into two parts:

- The first part (‘192.168’ in the example) identifies the network on which the device resides.
- The second part (‘100.8’ in the example) identifies the device within the network.

If your network is internal to your organization only, you may use any arbitrary IP address. We suggest you use addresses in the series 192.168.100.X (where X is a number between 1 and 254) with a subnet mask 255.255.255.0.



These suggested IP addresses are part of a group of IP addresses that have been set aside specially for use “in house” only.



CAUTION: *If your network has a connection to the external IP network, you must apply for a registered IP address. This registration system ensures that every IP address used is unique; if you do not have a registered IP address, you may be using an identical address to someone else and your network will not operate correctly.*

Obtaining a Registered IP Address

InterNIC Registration Services is the organization responsible for supplying registered IP addresses. The following contact information is correct at time of publication:

World Wide Web site: **<http://www.internic.net>**

Subnets and Using a Subnet Mask

You can divide your IP network into sub-networks also known as subnets. Support for subnets is important because the number of bits assigned to the device part of an IP address limits the number of devices that may be addressed on any given network. For example, a Class C address is restricted to 254 devices.



If you have a small network (less than 254 devices), you may decide not to have multiple subnets.

A subnet mask is used to divide the device part of the IP address into two further parts:

- The first part identifies the subnet number.
- The second part identifies the device on that subnet.

The bits of the subnet mask are set to 1 if the device is to treat the corresponding bit in the IP address as part of the original network number or as part of the subnet number. These bits in the mask are set to 0 if the device is to treat the bit as part of the device number.

If you are unsure about what mask to use, 3Com suggests that you contact your network administrator.

Logging in as a Default User

If you manage a Switch using the web interface or the command line interface, you need to log in with a valid user name and password. The Switch has two default user names, and each user name has a different password and level of access. These default user names are listed in [Table 9](#).

Table 9 Default Users

User Name	Default Password	Access Level
monitor	monitor	monitor — the user can view, but not change manageable parameters
admin	(no password)	security — the user can access and change all manageable parameters



CAUTION: *To protect your Switch from unauthorized access, you must change all default passwords as soon as possible.*



For more information about default users, refer to the “SuperStack 3 Switch 4300 Management Interface Reference Guide” on the Switch CD-ROM.

A

SAFETY INFORMATION

You must read the following safety information before carrying out any installation or removal of components, or any maintenance procedures on the Switch 4300.



WARNING: Warnings contain directions that you must follow for your personal safety. Follow all directions carefully.

You must read the following safety information carefully before you install or remove the unit.



AVERTISSEMENT: Les avertissements présentent des consignes que vous devez respecter pour garantir votre sécurité personnelle. Vous devez respecter attentivement toutes les consignes.

Nous vous demandons de lire attentivement les consignes suivantes de sécurité avant d'installer ou de retirer l'appareil.



WARNHINWEIS: Warnhinweise enthalten Anweisungen, die Sie zu Ihrer eigenen Sicherheit befolgen müssen. Alle Anweisungen sind sorgfältig zu befolgen.

Sie müssen die folgenden Sicherheitsinformationen' sorgfältig durchlesen, bevor Sie das Gerät installieren oder ausbauen.

Important Safety Information

- Installation and removal of the unit must be carried out by qualified personnel only.
- If installing the Switch 4300 in a stack with SuperStack II or SuperStack 3 units that are narrower than the 4300, the Switch 4300 unit must be installed below the narrower units.
- The unit must be earthed (grounded).
- Connect the unit to an earthed power supply to ensure compliance with safety standards.
- Power Cord Set:
This must be approved for the country where it is used:

U.S.A. and Canada	■ The cord set must be UL-approved and CSA certified. ■ The minimum specification for the flexible cord is: No. 18 AWG Type SV or SJ 3-conductor ■ The cord set must have a rated current capacity of at least 10A. ■ The attachment plug must be an earth-grounding type with a NEMA 5-15P (15A, 125V) or NEMA 6-15P (15A, 250V) configuration.
United Kingdom only	■ The supply plug must comply with BS1363 (3-pin 13 amp) and be fitted with a 5A fuse which complies with BS1362. ■ The mains cord must be <HAR> or <BASEC> marked and be of type H03VVF3GO.75 (minimum).
Europe only:	■ The supply plug must comply with CEE 7/7 ("SCHUKO"). ■ The mains cord must be <HAR> or <BASEC> marked and be of type H03VVF3GO.75 (minimum).
Denmark	■ The supply plug must comply with section 107-2-D1, standard DK2-1a or DK2-5a.
Switzerland	■ The supply plug must comply with SEV/ASE 1011.
- The appliance coupler (the connector to the unit and not the wall plug) must have a configuration for mating with an EN60320/IEC320 appliance inlet.
- The socket outlet must be near to the unit and easily accessible. You can only remove power from the unit by disconnecting the power cord from the outlet.

- This unit operates under SELV (Safety Extra Low Voltage) conditions according to IEC 950. The conditions are only maintained if the equipment to which it is connected also operates under SELV conditions.
- France and Peru only:
This unit cannot be powered from IT⁺ supplies. If your supplies are of IT type, this unit must be powered by 230V (2P+T) via an isolation transformer ratio 1:1, with the secondary connection point labelled Neutral, connected directly to earth (ground).
*Impédance à la terre.



WARNING: RJ-45 Ports. These are shielded RJ-45 data sockets. They cannot be used as standard traditional telephone sockets, or to connect the unit to a traditional PBX or public telephone network. Only connect RJ-45 data connectors, network telephony systems, or network telephones to these sockets.

Either shielded or unshielded data cables with shielded or unshielded jacks can be connected to these data sockets.



WARNING: When an Expansion Module is not installed ensure the blanking panel is fitted by tightening all screws with a suitable tool.

L'information de Sécurité Importante

- L'installation et la dépose de ce groupe doivent être confiés à un personnel qualifié.
- Si vous entassez l'unité Switch avec les unités SuperStack 3 Hub, l'unité Switch 4300 doit être installée en dessous des unités Hub plus étroites.
- Vous devez mettre l'appareil à la terre (à la masse) ce groupe.
- Brancher l'unité à une source de courant mise à la terre pour assurer la conformité aux normes de sécurité.

- Cordon électrique:

Il doit être agréé dans le pays d'utilisation:

Etats-Unis et Canada	■ Le cordon doit avoir reçu l'homologation des UL et un certificat de la CSA ■ Le cordon souple doit respecter, à titre minimum, les spécifications suivantes : ■ calibre 18 AWG ■ type SV ou SJ ■ à 3 conducteurs ■ Le cordon doit être en mesure d'acheminer un courant nominal d'au moins 10 A ■ La prise femelle de branchement doit être du type à mise à la terre (mise à la masse) et respecter la configuration NEMA 5-15P (15 A, 125 V) ou NEMA 6-15P (15 A, 250 V)
Danemark	■ La prise mâle d'alimentation doit respecter la section 107-2 D1 de la norme DK2 1a ou DK2 5a
Europe	■ La prise secteur doit être conforme aux normes CEE 7/7 ("SCHKO") ■ Le cordon secteur doit porter la mention <HAR> ou <BASEC> et doit être de type HO3VVF3GO.75 (minimum).
Suisse	■ La prise mâle d'alimentation doit respecter la norme SEV/ASE 1011

- Le coupleur d'appareil (le connecteur du groupe et non pas la prise murale) doit respecter une configuration qui permet un branchement sur une entrée d'appareil EN60320/CEI 320.
- La prise secteur doit se trouver à proximité de l'appareil et son accès doit être facile. Vous ne pouvez mettre l'appareil hors circuit qu'en débranchant son cordon électrique au niveau de cette prise.
- L'appareil fonctionne à une tension extrêmement basse de sécurité qui est conforme à la norme CEI 950. Ces conditions ne sont maintenues que si l'équipement auquel il est raccordé fonctionne dans les mêmes conditions.
- France et Pérou uniquement:
Ce groupe ne peut pas être alimenté par un dispositif à impédance à la terre. Si vos alimentations sont du type impédance à la terre, ce groupe doit être alimenté par une tension de 230 V (2 P+T) par le biais d'un transformateur d'isolement à rapport 1:1, avec un point secondaire de connexion portant l'appellation Neutre et avec raccordement direct à la terre (masse).



AVERTISSEMENT: Points d'accès RJ-45. Ceux-ci sont protégés par des prises de données. Ils ne peuvent pas être utilisés comme prises de téléphone conventionnelles standard, ni pour la connection de l'unité à un réseau téléphonique central privé ou public. Raccorder seulement connecteurs de données RJ-45, systèmes de réseaux de téléphonie ou téléphones de réseaux à ces prises.

Il est possible de raccorder des câbles protégés ou non protégés avec des jacks protégés ou non protégés à ces prises de données.



AVERTISSEMENTS: Si le module d'expansion n'est pas installé, veillez à bien installer la plaque d'obturation et serrez toutes les vis à l'aide d'un outil approprié.

Wichtige Sicherheitsinforma-tionen

- Die Installation und der Ausbau des Geräts darf nur durch Fachpersonal erfolgen.
- Wenn der Switch 4300 in einem Stack mit anderen SuperStack 3 Hub eingebaut werden soll, muß der Switch 4300 unter den schmalen Hubs eingebaut werden.
- Das Gerät muß geerdet sein.
- Das Gerät muß an eine geerdete Steckdose angeschlossen werden, die europäische Sicherheitsnormen erfüllt.
- Der Anschlußkabelsatz muß mit den Bestimmungen des Landes übereinstimmen, in dem er verwendet werden soll.
- Der Gerätestecker (der Anschluß an das Gerät, nicht der Wandsteckdosenstecker) muß eine passende Konfiguration für einen Geräteeingang gemäß EN60320/IEC320 haben.
- Die Netzsteckdose muß in der Nähe des Geräts und leicht zugänglich sein. Die Stromversorgung des Geräts kann nur durch Herausziehen des Gerätenetzkabels aus der Netzsteckdose unterbrochen werden.

Europe

- Das Netzkabel muß vom Typ HO3VVF3GO.75 (Mindestanforderung) sein und die Aufschrift <HAR> oder <BASEC> tragen.
- Der Netzstecker muß die Norm CEE 7/7 erfüllen ("SCHUKO").

- Der Betrieb dieses Geräts erfolgt unter den SELV-Bedingungen (Sicherheitskleinstspannung) gemäß IEC 950. Diese Bedingungen sind nur gegeben, wenn auch die an das Gerät angeschlossenen Geräte unter SELV-Bedingungen betrieben werden.



WARNHINWEIS: RJ-45-Porte. Diese Porte sind geschützte Datensteckdosen. Sie dürfen weder wie normale traditionelle Telefonsteckdosen noch zur die Verbindung der Einheit mit einem traditionellem privatem oder öffentlichem Telefonnetzwerk benutzt werden. Nur RJ-45-Datenanschlüsse, Telefonnetzsysteme or Netztelefone an diese Steckdosen anschließen.

Entweder geschützte oder ungeschützte Buchsen dürfen an diese Datensteckdosen angeschlossen werden.



ACHTUNG: Ist kein Erweiterungsmodul installiert, überprüfen Sie bitte den Sitz der Stanzplatte, indem Sie alle Schrauben mit einem geeigneten Werkzeug anziehen.

B

PIN-OUTS

Null Modem Cable

9-pin to RS-232 25-pin

Switch 4300

Cable connector: 9-pin female

Screen	Shell	●
TxD	3	●
RxD	2	●
Ground	5	●
RTS	7	●
CTS	8	●
DSR	6	●
DCD	1	●
DTR	4	●

PC/Terminal

Cable connector: 25-pin male/female

●	1	Screen
●	3	RxD
●	2	TxD
●	7	Ground
●	4	RTS
●	20	DTR
●	5	CTS
●	6	DSR
●	8	DCD

only required if screen

always required

required for handshake

PC-AT Serial Cable

9-pin to 9-pin

Switch 4300

Cable connector: 9-pin female

Screen	Shell	●
DTR	4	●
TxD	3	●
RxD	2	●
CTS	8	●
Ground	5	●
DSR	6	●
RTS	7	●
DCD	1	●

PC-AT Serial Port

Cable connector: 9-pin female

●	Shell	Screen
●	1	DCD
●	2	RxD
●	3	TxD
●	4	DTR
●	5	Ground
●	6	DSR
●	7	RTS
●	8	CTS

only required if screen

Required for handshake

always required

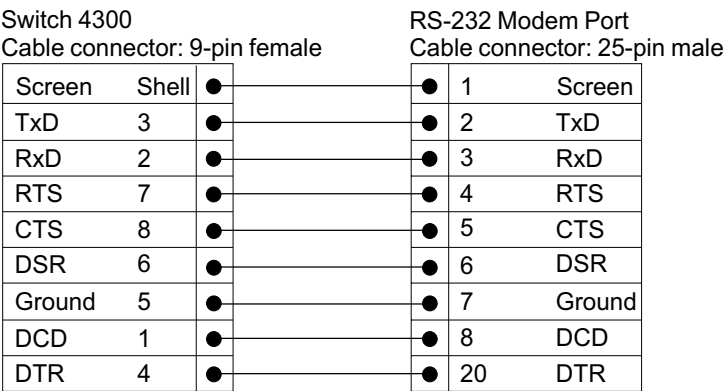
required for handshake

always required

required for handshake

Modem Cable

9-pin to RS-232 25-pin



RJ-45 Pin Assignments

Pin assignments are identical for 10BASE-T and 100BASE-TX RJ-45 connectors

Table 10 Pin assignments

Pin Number	Signal	Function
<i>Ports configured as MDI</i>		
1	Transmit Data +	Bidirectional Data A+
2	Transmit Data +	Bidirectional Data A-
3	Receive Data +	Bidirectional Data B+
4	Not assigned	Bidirectional Data C+
5	Not assigned	Bidirectional Data C-
6	Receive Data –	Bidirectional Data B-
7	Not assigned	Bidirectional Data D+
8	Not assigned	Bidirectional Data D-

Table 11 Pin assignments

Pin Number	Signal	Function
<i>Ports configured as MDIX</i>		
1	Receive Data +	Bidirectional Data B+
2	Receive Data -	Bidirectional Data B-
3	Transmit Data +	Bidirectional Data A+
4	Not assigned	Bidirectional Data A-
5	Not assigned	Bidirectional Data D+
6	Transmit Data	Bidirectional Data D-
7	Not assigned	Bidirectional Data C+
8	Not assigned	Bidirectional Data C-



TECHNICAL SPECIFICATIONS

Physical Dimensions	Height: 65 mm (2.6 in.) x Width: 440 mm (17.6 in.) x Depth: 300 mm (12 in.) Weight: 5.5 kg (11 lbs)
Environmental Requirements	
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage Temperature	−40 °C to +70 °C (−8 °F to 158 °F)
Operating Humidity	10–95% relative humidity, non-condensing
Standards	EN60068 to 3Com schedule (Package testing: paras 2.1, 2.2, 2.30, and 2.32. Operational testing: paras 2.1, 2.2, 2.30 and 2.13).
Safety	
Agency Certifications	UL 1950, EN60950, CSA 22.2 No. 950, IEC 60950
EMC	
Emissions	CISPRR 22 Class A, EN55022 Class A, FCC Part 15 Subpart B Class A, ICES-003 Class A, AS/NZS 3548 Class A, CNS 13438 Class A,EN61000-3-2
Immunity	EN 55024
Heat Dissipation	90 watts maximum (307 BTU/hour maximum)
Power Supply	
AC Line Frequency	50/60 Hz
Input Voltage Options	100–240 VAC
Current Rating	2A (amps)(maximum)

Standards Supported	SNMP:	Terminal Emulation:
	SNMP protocol (RFC 1517)	Telnet (RFC 854)
	MIB-II (RFC 1213)	Protocols Used for Administration:
	Bridge MIB (RFC 1493)	UDP (RFC 768)
	Interface MIB (RFC 1573)	IP (RFC 791)
	EtherLike-MIB (RFC 1643)	ICMP (RFC 792)
	Remote Monitoring MIB (RFC 1757)	TCP (RFC 793)
	Bridge MIB Extensions (RFC 2674)	ARP (RFC 826)
	BOOTP (RFC 951)	TFTP (RFC 783)

D

TECHNICAL SUPPORT

3Com provides easy access to technical support information through a variety of services. This appendix describes these services.

Information contained in this appendix is correct at time of publication. For the most recent information, 3Com recommends that you access the 3Com Corporation World Wide Web site.

Online Technical Services

3Com offers worldwide product support 24 hours a day, 7 days a week, through the following online systems:

- World Wide Web site
- 3Com Knowledgebase Web Services
- 3Com FTP site

World Wide Web Site

To access the latest networking information on the 3Com Corporation World Wide Web site, enter this URL into your Internet browser:

<http://www.3com.com/>

This service provides access to online support information such as technical documentation and software, as well as support options that range from technical education to maintenance and professional services.

3Com Knowledgebase Web Services

This interactive tool contains technical product information compiled by 3Com expert technical engineers around the globe. Located on the World Wide Web at **<http://knowledgebase.3com.com>**, this service gives all 3Com customers and partners complementary, round-the-clock access to technical information on most 3Com products.

3Com FTP Site Download drivers, patches, software, and MIBs across the Internet from the 3Com public FTP site. This service is available 24 hours a day, 7 days a week.

To connect to the 3Com FTP site, enter the following information into your FTP client:

- Hostname: **ftp.3com.com**
- Username: **anonymous**
- Password: **<your Internet e-mail address>**



You do not need a user name and password with Web browser software such as Netscape Navigator and Internet Explorer.

Support from Your Network Supplier

If you require additional assistance, contact your network supplier. Many suppliers are authorized 3Com service partners who are qualified to provide a variety of services, including network planning, installation, hardware maintenance, application training, and support services.

When you contact your network supplier for assistance, have the following information ready:

- Product model name, part number, and serial number
- A list of system hardware and software, including revision levels
- Diagnostic error messages
- Details about recent configuration changes, if applicable

If you are unable to contact your network supplier, see the following section on how to contact 3Com.

Support from 3Com

If you are unable to obtain assistance from the 3Com online technical resources or from your network supplier, 3Com offers technical telephone support services. To find out more about your support options, call the 3Com technical telephone support phone number at the location nearest you.

When you contact 3Com for assistance, have the following information ready:

- Product model name, part number, and serial number
- A list of system hardware and software, including revision levels

- Diagnostic error messages
- Details about recent configuration changes, if applicable

Here is a list of worldwide technical telephone support numbers. These numbers are correct at the time of publication. Refer to the 3Com Web site for updated information.

Country	Telephone Number	Country	Telephone Number
Asia, Pacific Rim			
Australia	1 800 678 515	P.R. of China	10800 61 00137 or
Hong Kong	800 933 486		021 6350 1590 or
India	+61 2 9937 5085 or		00800 0638 3266
	000800 6501111	Singapore	800 6161 463
Indonesia	001 800 61 009	S. Korea	00798 611 2230 or
Japan	03 5783 1270		02 3455 6455
Malaysia	1800 801 777	Taiwan, R.O.C.	0080 611 261
New Zealand	0800 446 398	Thailand	001 800 611 2000
Pakistan	+61 2 9937 5083		
Philippines	1235 61 266 2602		
Europe, Middle East and Africa			
From anywhere in these regions, call:	+44 (0)1442 435529 phone +44 (0)1442 436722 fax		
Europe and South Africa			
From the following countries, you may use the toll-free numbers:			
Austria	0800 297468	Luxembourg	0800 3625
Belgium	0800 71429	Netherlands	0800 0227788
Denmark	800 17309	Norway	800 11376
Finland	0800 113153	Poland	00800 3111206
France	0800 917959	Portugal	0800 831416
Germany	0800 1821502	South Africa	0800 995014
Hungary	06800 12813	Spain	900 983125
Ireland	1800 553117	Sweden	020 795482
Israel	1800 9453794	Switzerland	0800 55 3072
Italy	800 8 79489	U.K.	0800 966197
Latin America			
Brazil	0800 13 3266	Puerto Rico	800 666 5065
Mexico	01 800 849CARE	Central and South America	AT&T +800 998 2112
North America			
	1 800 NET 3Com (1 800 638 3266)		
	Enterprise Customers: 1 800 876 3266		

Returning Products for Repair

Before you send a product directly to 3Com for repair, you must first obtain an authorization number. Products sent to 3Com without authorization numbers will be returned to the sender unopened, at the sender's expense.

To obtain an authorization number, call or fax:

Country	Telephone Number	Fax Number
Asia, Pacific Rim	+ 65 543 6500	+ 65 543 6348
Europe, South Africa, and Middle East	+ 31 30 6029900	+ 31 30 6029999
Central and South America	525 201 0075	
Argentina	0810 222 3266	
Bolivia	511 241 1691	
Brazil	0800 133266 or 55 11 5643 2700	
Caribbean	525 201 0004	
Chile	562 240 6200	
Colombia	525 201 0004	
Ecuador	525 201 0004	
Mexico	525 201 0004	
Paraguay	525 201 0004	
Peru	511 241 1691	
Uruguay	525 201 0004	
Venezuela	525 201 0004	
From the following countries, you may call the toll-free numbers; select option 2 and then option 2:		
Austria	0800 297468	
Belgium	0800 71429	
Denmark	800 17309	
Finland	0800 113153	
France	0800 917959	
Germany	0800 1821502	
Hungary	00800 12813	
Ireland	1800553117	
Israel	1800 9453794	
Italy	1678 79489	
Netherlands	0800 0227788	
Norway	800 11376	
Poland	00800 3111206	
Portugal	0800 831416	
South Africa	0800 995014	
Spain	900 983125	
Sweden	020 795482	
Switzerland	0800 55 3072	
U.K.	0800 966197	
U.S.A. and Canada	1 800 NET 3Com (1 800 638 3266)	1 408 326 7120 (not toll-free)
	Enterprise Customers: 1 800 876 3266	

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REGULATORY NOTICES

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference to radio communications, in which case the user will be required to correct the interference at their own expense.

INFORMATION TO THE USER

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the equipment with respect to the receiver.
- Move the equipment away from the receiver.
- Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

How to Identify and Resolve Radio-TV Interference Problems

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

In order to meet FCC emissions limits, this equipment must be used only with cables which comply with IEEE 802.3.

CSA STATEMENT

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

CE STATEMENT (EUROPE)

This product complies with the European Low Voltage Directive 73/23/EEC and EMC Directive 89/336/EEC as amended by European Directive 93/68/EEC.

Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

VCCI STATEMENT

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

BSMI STATEMENT

警告使用者：這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

